

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 1	Winter	2020	4th Grade	Integrated Science	33.00	18	93.00	60.00	-60.00	3600
Classroom 2	Winter	2020	1st Grade	Integrated Science	58.00	19	89.00	31.00	-31.00	961
Classroom 3	Winter	2020	10th Grade	Social Studies	70.70	23	89.26	18.56	-18.56	344.4736
Classroom 4	Winter	2020	1st Grade	Mathematics	81.00	21	96.00	15.00	-15.00	225
Classroom 5	Winter	2020	2nd Grade	Integrated Science	51.00	21	77.00	26.00	-26.00	676
Classroom 6	Winter	2020	2nd Grade	Mathematics	21.00	20	72.00	51.00	-51.00	2601
Classroom 7	Winter	2020	10th Grade	Mathematics	65.00	65	56.00	-9.00	9.00	81
Classroom 8	Winter	2020	7th Grade	Social Studies	55.47	113	87.21	31.74	-31.74	1007.4276
Classroom 9	Winter	2020	5th Grade	Mathematics	6.00	21	41.00	35.00	-35.00	1225
Classroom 10	Winter	2020	2nd Grade	Integrated Science	42.93	19	89.16	46.23	-46.23	2137.2129
Classroom 11	Winter	2020	4th Grade	Mathematics	61.00	22	63.00	2.00	-2.00	4
Classroom 12	Winter	2020	3rd Grade	Mathematics	49.00	22	78.00	29.00	-29.00	841
Classroom 13	Winter	2020	1st Grade	Mathematics	32.00	21	86.00	54.00	-54.00	2916
Classroom 14	Winter	2020	2nd Grade	Integrated Science	60.00	20	81.00	21.00	-21.00	441
Classroom 15	Winter	2020	3rd Grade	Social Studies	11.30	23	79.50	68.20	-68.20	4651.24
Classroom 16	Winter	2020	3rd Grade	Social Studies	68.00	26	83.00	15.00	-15.00	225
Classroom 17	Winter	2020	4th Grade	Language Arts	22.00	20	95.00	73.00	-73.00	5329
Classroom 18	Winter	2020	3rd Grade	Mathematics	66.00	21	83.00	17.00	-17.00	289
Classroom 19	Winter	2020	3rd Grade	Mathematics	40.50	26	88.72	48.22	-48.22	2325.1684
Classroom 20	Winter	2020	1st Grade	Mathematics	67.80	20	92.30	24.50	-24.50	600.25
Classroom 21	Winter	2020	3rd Grade	Social Studies	45.85	23	76.40	30.55	-30.55	933.3025
Classroom 22	Winter	2020	5th Grade	Mathematics	21.00	20	65.00	44.00	-44.00	1936
Classroom 23	Winter	2020	4th Grade	Mathematics	70.00	22	86.00	16.00	-16.00	256
Classroom 24	Winter	2020	1st Grade	Mathematics	33.50	21	90.00	56.50	-56.50	3192.25
Classroom 25	Winter	2020	2nd Grade	Mathematics	57.00	20	84.00	27.00	-27.00	729
Classroom 26	Winter	2020	4th Grade	Mathematics	25.20	18	82.10	56.90	-56.90	3237.61
Classroom 27	Winter	2020	4th Grade	Mathematics	16.40	25	59.60	43.20	-43.20	1866.24
Classroom 28	Winter	2020	Kindergarten	Mathematics	32.00	18	89.75	57.75	-57.75	3335.0625
Classroom 29	Winter	2020	3rd Grade	Integrated Science	61.00	16	79.00	18.00	-18.00	324
Classroom 30	Winter	2020	4th Grade	Mathematics	49.71	27	78.28	28.57	-28.57	816.2449
Classroom 31	Winter	2020	2nd Grade	Mathematics	44.00	19	98.00	54.00	-54.00	2916
Classroom 32	Winter	2020	1st Grade	Integrated Science	57.40	18	85.20	27.80	-27.80	772.84
Classroom 33	Winter	2020	1st Grade	Integrated Science	39.00	20	74.00	35.00	-35.00	1225
Classroom 34	Winter	2020	1st Grade	Integrated Science	54.00	16	79.00	25.00	-25.00	625
Classroom 35	Winter	2020	3rd Grade	Integrated Science	44.68	19	83.50	38.82	-38.82	1506.9924
Classroom 36	Winter	2020	2nd Grade	Mathematics	89.56	25	100.00	10.44	-10.44	108.9936
Classroom 37	Winter	2020	Kindergarten	Mathematics	55.00	18	88.00	33.00	-33.00	1089

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Classroom 38	Winter	2020	4th Grade	Mathematics	59.00	26	78.00	19.00	-19.00	361
Classroom 39	Winter	2020	Kindergarten	Mathematics	64.70	19	86.40	21.70	-21.70	470.89
Classroom 40	Winter	2020	4th Grade	Integrated Science	40.34	25	56.25	15.91	-15.91	253.1281
Classroom 41	Winter	2020	Kindergarten	Integrated Science	59.44	25	93.38	33.94	-33.94	1151.9236
Classroom 42	Winter	2020	Kindergarten	Mathematics	80.39	20	97.87	17.48	-17.48	305.5504
Classroom 43	Winter	2020	3rd Grade	Mathematics	57.00	19	81.00	24.00	-24.00	576
Classroom 44	Winter	2020	3rd Grade	Physical Education	71.00	22	96.00	25.00	-25.00	625
Classroom 45	Winter	2020	5th Grade	Mathematics	44.50	17	65.00	20.50	-20.50	420.25
Classroom 46	Winter	2020	5th Grade	Integrated Science	41.00	17	69.00	28.00	-28.00	784
Classroom 47	Winter	2020	1st Grade	Mathematics	41.00	35	84.00	43.00	-43.00	1849
Classroom 48	Winter	2020	3rd Grade	Mathematics	59.50	22	86.00	26.50	-26.50	702.25
Classroom 49	Winter	2020	Kindergarten	Integrated Science	62.00	17	70.00	8.00	-8.00	64
Classroom 50	Winter	2020	1st Grade	Mathematics	72.00	20	91.00	19.00	-19.00	361
Classroom 51	Winter	2020	5th Grade	Mathematics	37.00	26	85.00	48.00	-48.00	2304
Classroom 52	Winter	2020	2nd Grade	Mathematics	34.00	19	69.00	35.00	-35.00	1225
Classroom 53	Winter	2020	8th Grade	Mathematics	1.00	30	83.00	82.00	-82.00	6724
Classroom 54	Winter	2020	1st Grade	Mathematics	69.00	23	82.50	13.50	-13.50	182.25
Classroom 55	Winter	2020	3rd Grade	Mathematics	64.75	22	65.63	0.88	-0.88	0.7744
Classroom 56	Winter	2020	3rd Grade	Mathematics	45.00	25	92.00	47.00	-47.00	2209
Classroom 57	Winter	2020	1st Grade	Language Arts	64.00	19	86.00	22.00	-22.00	484
Classroom 58	Winter	2020	10th Grade	French	25.00	26	84.00	59.00	-59.00	3481
Classroom 59	Winter	2020	11th Grade	Mathematics	21.00	49	96.00	75.00	-75.00	5625
Classroom 60	Winter	2020	4th Grade	Social Studies	27.50	26	83.00	55.50	-55.50	3080.25
Classroom 61	Winter	2020	11th Grade	Music	70.00	90	100.00	30.00	-30.00	900
Classroom 62	Winter	2020	6th Grade	Music	6.00	15	76.00	70.00	-70.00	4900
Classroom 63	Winter	2020	9th Grade	Music	65.00	27	90.00	25.00	-25.00	625
Classroom 64	Winter	2020	9th Grade	Music	75.00	27	45.00	-30.00	30.00	900
Classroom 65	Winter	2020	12th Grade	English	19.20	51	83.50	64.30	-64.30	4134.49
Classroom 66	Winter	2020	10th Grade	Social Studies	39.75	70	71.50	31.75	-31.75	1008.0625
Classroom 67	Winter	2020	9th Grade	Social Studies	53.33	71	82.60	29.27	-29.27	856.7329
Classroom 68	Winter	2020	7th Grade	Social Studies	76.00	18	82.00	6.00	-6.00	36
Classroom 69	Winter	2020	8th Grade	Music	28.00	36	94.00	66.00	-66.00	4356
Classroom 70	Winter	2020	8th Grade	Music	37.50	35	80.00	42.50	-42.50	1806.25
Classroom 71	Winter	2020	9th Grade	Mathematics	12.50	64	89.00	76.50	-76.50	5852.25
Classroom 72	Winter	2020	8th Grade	Spanish	34.00	22	86.20	52.20	-52.20	2724.84
Classroom 73	Winter	2020	11th Grade	Art	50.00	36	70.00	20.00	-20.00	400
Classroom 74	Winter	2020	6th Grade	Music	20.00	42	81.00	61.00	-61.00	3721

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Classroom 75	Winter	2020	6th Grade	Music	71.43	55	85.71	14.28	-14.28	203.9184
Classroom 76	Winter	2020	7th Grade	Earth Science	64.28	28	76.32	12.04	-12.04	144.9616
Classroom 77	Winter	2020	2nd Grade	Mathematics	70.00	21	79.00	9.00	-9.00	81
Classroom 78	Winter	2020	1st Grade	Mathematics	84.00	23	91.00	7.00	-7.00	49
Classroom 79	Winter	2020	6th Grade	Mathematics	9.99	74	58.30	48.31	-48.31	2333.8561
Classroom 80	Winter	2020	7th Grade	Mathematics	16.00	65	80.00	64.00	-64.00	4096
Classroom 81	Winter	2020	4th Grade	Mathematics	15.00	28	78.60	63.60	-63.60	4044.96
Classroom 82	Winter	2020	4th Grade	Social Studies	72.50	25	97.50	25.00	-25.00	625
Classroom 83	Winter	2020	4th Grade	Integrated Science	44.00	26	74.00	30.00	-30.00	900
Classroom 84	Winter	2020	5th Grade	Mathematics	48.00	22	78.00	30.00	-30.00	900
Classroom 85	Winter	2020	7th Grade	Language Arts	31.00	30	78.60	47.60	-47.60	2265.76
Classroom 86	Winter	2020	4th Grade	Mathematics	29.20	17	62.30	33.10	-33.10	1095.61
Classroom 87	Winter	2020	9th Grade	English	40.65	49	84.20	43.55	-43.55	1896.6025
Classroom 88	Winter	2020	6th Grade	Language Arts	30.00	62	33.00	3.00	-3.00	9
Classroom 89	Winter	2020	11th Grade	Mathematics	20.00	29	50.00	30.00	-30.00	900
Classroom 90	Winter	2020	10th Grade	English	40.00	58	95.86	55.86	-55.86	3120.3396
Classroom 91	Winter	2020	7th Grade	Language Arts	24.00	26	70.00	46.00	-46.00	2116
Classroom 92	Winter	2020	12th Grade	English	37.30	33	89.17	51.87	-51.87	2690.4969
Classroom 93	Winter	2020	9th Grade	Spanish	18.50	42	95.00	76.50	-76.50	5852.25
Classroom 94	Winter	2020	4th Grade	Language Arts	48.90	20	75.00	26.10	-26.10	681.21
Classroom 95	Winter	2020	10th Grade	English	44.60	21	90.15	45.55	-45.55	2074.8025
Classroom 96	Winter	2020	9th Grade	Physical Education	86.00	45	89.00	3.00	-3.00	9
Classroom 97	Winter	2020	12th Grade	English	40.00	42	57.00	17.00	-17.00	289
Classroom 98	Winter	2020	10th Grade	Art	84.80	23	80.93	-3.87	3.87	14.9769
Classroom 99	Winter	2020	9th Grade	Biology	23.00	36	86.00	63.00	-63.00	3969
Classroom 100	Winter	2020	9th Grade	English	60.00	25	81.00	21.00	-21.00	441
Classroom 101	Winter	2020	11th Grade	English	36.00	66	77.00	41.00	-41.00	1681
Classroom 102	Winter	2020	9th Grade	Mathematics	29.50	21	80.60	51.10	-51.10	2611.21
Classroom 103	Winter	2020	10th Grade	Spanish	47.00	26	100.00	53.00	-53.00	2809
Classroom 104	Winter	2020	7th Grade	Social Studies	53.73	20	86.88	33.15	-33.15	1098.9225
Classroom 105	Winter	2020	6th Grade	Language Arts	40.80	134	82.30	41.50	-41.50	1722.25
Classroom 106	Winter	2020	10th Grade	Chemistry	16.94	112	72.08	55.14	-55.14	3040.4196
Classroom 107	Winter	2020	8th Grade	Language Arts	53.80	107	93.80	40.00	-40.00	1600
Classroom 108	Winter	2020	11th Grade	English	48.00	89	91.50	43.50	-43.50	1892.25
Classroom 109	Winter	2020	5th Grade	Art	62.80	23	80.00	17.20	-17.20	295.84
Classroom 110	Winter	2020	2nd Grade	Integrated Science	100.00	2	100.00	0.00	0.00	0
Classroom 111	Winter	2020	10th Grade	Music	70.00	66	93.00	23.00	-23.00	529

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Classroom 112	Winter	2020	1st Grade	Mathematics	50.00	25	75.20	25.20	-25.20	635.04
Classroom 113	Winter	2020	4th Grade	Physical Education	14.30	20	42.90	28.60	-28.60	817.96
Classroom 114	Winter	2020	6th Grade	Geography	51.00	23	93.00	42.00	-42.00	1764
Classroom 115	Winter	2020	8th Grade	Social Studies	45.60	60	76.00	30.40	-30.40	924.16
Classroom 116	Winter	2020	7th Grade	Language Arts	61.58	109	75.42	13.84	-13.84	191.5456
Classroom 117	Winter	2020	2nd Grade	Art	70.00	23	90.00	20.00	-20.00	400
Classroom 118	Winter	2020	3rd Grade	Physical Education	71.00	28	85.00	14.00	-14.00	196
Classroom 119	Winter	2020	9th Grade	Social Studies	37.60	120	66.30	28.70	-28.70	823.69
Classroom 120	Winter	2020	9th Grade	French	43.00	24	90.00	47.00	-47.00	2209
Classroom 121	Fall	2020	3rd Grade	Mathematics	81.00	26	83.00	2.00	-2.00	4
Classroom 122	Fall	2020	3rd Grade	Mathematics	50.00	19	76.00	26.00	-26.00	676
Classroom 123	Fall	2020	3rd Grade	Mathematics	93.00	21	91.00	-2.00	2.00	4
Classroom 124	Fall	2020	3rd Grade	Mathematics	48.57	21	85.23	36.66	-36.66	1343.9556
Classroom 125	Fall	2020	3rd Grade	Mathematics	12.00	16	64.00	52.00	-52.00	2704
Classroom 126	Fall	2020	3rd Grade	Mathematics	56.00	16	87.00	31.00	-31.00	961
Classroom 127	Fall	2020	3rd Grade	Language Arts	49.40	19	70.00	20.60	-20.60	424.36
Classroom 128	Fall	2020	4th Grade	Integrated Science	26.20	21	60.30	34.10	-34.10	1162.81
Classroom 129	Fall	2020	3rd Grade	Mathematics	56.00	18	86.00	30.00	-30.00	900
Classroom 130	Fall	2020	1st Grade	Mathematics	67.00	17	67.00	0.00	0.00	0
Classroom 131	Fall	2020	1st Grade	Mathematics	40.00	15	86.67	46.67	-46.67	2178.0889
Classroom 132	Fall	2020	1st Grade	Mathematics	0.00	20	92.00	92.00	-92.00	8464
Classroom 133	Fall	2020	1st Grade	Language Arts	86.00	14	91.00	5.00	-5.00	25
Classroom 134	Fall	2020	2nd Grade	Mathematics	45.00	24	71.00	26.00	-26.00	676
Classroom 135	Fall	2020	3rd Grade	Mathematics	60.80	39	54.62	-6.18	6.18	38.1924
Classroom 136	Fall	2020	5th Grade	Language Arts	32.00	17	87.00	55.00	-55.00	3025
Classroom 137	Fall	2020	1st Grade	Mathematics	87.00	15	91.00	4.00	-4.00	16
Classroom 138	Fall	2020	6th Grade	Social Studies	11.00	49	78.00	67.00	-67.00	4489
Classroom 139	Fall	2020	3rd Grade	Mathematics	83.00	20	86.00	3.00	-3.00	9
Classroom 140	Fall	2020	3rd Grade	Mathematics	92.00	10	38.00	-54.00	54.00	2916
Classroom 141	Fall	2020	Kindergarten	Mathematics	18.00	13	43.00	25.00	-25.00	625
Classroom 142	Fall	2020	5th Grade	Language Arts	72.14	15	86.67	14.53	-14.53	211.1209
Classroom 143	Fall	2020	1st Grade	Language Arts	27.00	19	65.00	38.00	-38.00	1444
Classroom 144	Fall	2020	2nd Grade	Mathematics	47.00	18	48.00	1.00	-1.00	1
Classroom 145	Fall	2020	Kindergarten	Mathematics	40.00	15	100.00	60.00	-60.00	3600
Classroom 146	Fall	2020	3rd Grade	Language Arts	61.00	20	91.00	30.00	-30.00	900
Classroom 147	Fall	2020	5th Grade	Language Arts	52.50	24	77.30	24.80	-24.80	615.04
Classroom 148	Fall	2020	1st Grade	Mathematics	44.00	9	66.00	22.00	-22.00	484

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Classroom 149	Fall	2020	3rd Grade	Mathematics	38.30	13	45.70	7.40	-7.40	54.76
Classroom 150	Fall	2020	1st Grade	Language Arts	75.00	24	96.00	21.00	-21.00	441
Classroom 151	Fall	2020	Kindergarten	Mathematics	69.00	18	76.00	7.00	-7.00	49
Classroom 152	Fall	2020	5th Grade	Mathematics	45.70	19	75.56	29.86	-29.86	891.6196
Classroom 153	Fall	2020	4th Grade	Mathematics	64.00	19	82.00	18.00	-18.00	324
Classroom 154	Fall	2020	6th Grade	Language Arts	42.50	5	85.00	42.50	-42.50	1806.25
Classroom 155	Fall	2020	5th Grade	Mathematics	21.14	16	24.77	3.63	-3.63	13.1769
Classroom 156	Fall	2020	4th Grade	Language Arts	4.38	20	91.25	86.87	-86.87	7546.3969
Classroom 157	Fall	2020	1st Grade	Language Arts	71.00	19	93.00	22.00	-22.00	484
Classroom 158	Fall	2020	1st Grade	Language Arts	28.60	11	88.75	60.15	-60.15	3618.0225
Classroom 159	Fall	2020	4th Grade	Language Arts	62.50	11	50.00	-12.50	12.50	156.25
Classroom 160	Fall	2020	5th Grade	Social Studies	58.00	19	91.00	33.00	-33.00	1089
Classroom 161	Fall	2020	5th Grade	Integrated Science	44.00	19	82.00	38.00	-38.00	1444
Classroom 162	Fall	2020	5th Grade	Language Arts	68.57	21	80.95	12.38	-12.38	153.2644
Classroom 163	Fall	2020	1st Grade	Mathematics	71.00	16	96.00	25.00	-25.00	625
Classroom 164	Fall	2020	12th Grade	English	0.00	30	100.00	100.00	-100.00	10000
Classroom 165	Fall	2020	10th Grade	Social Studies	40.00	21	83.50	43.50	-43.50	1892.25
Classroom 166	Fall	2020	12th Grade	Social Studies	58.00	46	93.00	35.00	-35.00	1225
Classroom 167	Fall	2020	9th Grade	Art	85.70	10	97.20	11.50	-11.50	132.25
Classroom 168	Fall	2020	Kindergarten	Language Arts	58.80	24	99.60	40.80	-40.80	1664.64
Classroom 169	Fall	2020	2nd Grade	Language Arts	73.75	15	95.38	21.63	-21.63	467.8569
Classroom 170	Fall	2020	2nd Grade	Mathematics	25.00	20	67.00	42.00	-42.00	1764
Classroom 171	Fall	2020	1st Grade	Mathematics	78.00	16	83.00	5.00	-5.00	25
Classroom 172	Fall	2020	4th Grade	Mathematics	19.00	13	68.00	49.00	-49.00	2401
Classroom 173	Fall	2020	1st Grade	Mathematics	42.00	13	90.00	48.00	-48.00	2304
Classroom 174	Fall	2020	Kindergarten	Language Arts	39.00	25	82.00	43.00	-43.00	1849
Classroom 175	Fall	2020	1st Grade	Mathematics	61.50	20	100.00	38.50	-38.50	1482.25
Classroom 176	Fall	2020	1st Grade	Mathematics	20.00	25	76.00	56.00	-56.00	3136
Classroom 177	Fall	2020	10th Grade	Social Studies	43.50	101	94.70	51.20	-51.20	2621.44
Classroom 178	Fall	2020	5th Grade	Mathematics	48.00	30	75.00	27.00	-27.00	729
Classroom 179	Fall	2020	2nd Grade	Mathematics	86.00	18	85.00	-1.00	1.00	1
Classroom 180	Fall	2020	5th Grade	Language Arts	45.90	16	53.60	7.70	-7.70	59.29
Classroom 181	Fall	2020	4th Grade	Mathematics	7.95	21	87.40	79.45	-79.45	6312.3025
Classroom 182	Fall	2020	1st Grade	Mathematics	81.25	7	93.33	12.08	-12.08	145.9264
Classroom 183	Fall	2020	2nd Grade	Mathematics	49.00	22	78.00	29.00	-29.00	841
Classroom 184	Fall	2020	2nd Grade	Social Studies	32.50	10	53.75	21.25	-21.25	451.5625
Classroom 185	Fall	2020	Kindergarten	Integrated Science	65.00	20	82.00	17.00	-17.00	289

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Classroom 186	Fall	2020	Kindergarten	Social Studies	52.29	14	91.14	38.85	-38.85	1509.3225
Classroom 187	Fall	2020	2nd Grade	Mathematics	58.00	24	75.00	17.00	-17.00	289
Classroom 188	Fall	2020	5th Grade	Integrated Science	55.36	21	84.38	29.02	-29.02	842.1604
Classroom 189	Fall	2020	5th Grade	Mathematics	55.00	14	58.00	3.00	-3.00	9
Classroom 190	Fall	2020	5th Grade	Language Arts	51.00	19	38.00	-13.00	13.00	169
Classroom 191	Fall	2020	5th Grade	Social Studies	13.00	24	79.00	66.00	-66.00	4356
Classroom 192	Fall	2020	4th Grade	Mathematics	35.00	4	75.00	40.00	-40.00	1600
Classroom 193	Fall	2020	4th Grade	Mathematics	17.00	18	74.00	57.00	-57.00	3249
Classroom 194	Fall	2020	3rd Grade	Mathematics	54.00	18	88.00	34.00	-34.00	1156
Classroom 195	Fall	2020	5th Grade	Language Arts	55.00	14	80.00	25.00	-25.00	625
Classroom 196	Fall	2020	2nd Grade	Integrated Science	11.00	9	90.00	79.00	-79.00	6241
Classroom 197	Fall	2020	4th Grade	Mathematics	62.60	16	80.00	17.40	-17.40	302.76
Classroom 198	Fall	2020	Kindergarten	Mathematics	60.00	13	80.00	20.00	-20.00	400
Classroom 199	Fall	2020	1st Grade	Integrated Science	67.00	21	86.00	19.00	-19.00	361
Classroom 200	Fall	2020	3rd Grade	Mathematics	65.00	7	87.00	22.00	-22.00	484
Classroom 201	Fall	2020	1st Grade	Mathematics	87.25	22	91.88	4.63	-4.63	21.4369
Classroom 202	Fall	2020	Kindergarten	Integrated Science	12.00	17	88.00	76.00	-76.00	5776
Classroom 203	Fall	2020	2nd Grade	Social Studies	58.00	13	56.00	-2.00	2.00	4
Classroom 204	Fall	2020	10th Grade	Mathematics	46.00	46	85.00	39.00	-39.00	1521
Classroom 205	Fall	2020	1st Grade	Mathematics	91.00	12	80.00	-11.00	11.00	121
Classroom 206	Fall	2020	7th Grade	Language Arts	54.43	90	91.14	36.71	-36.71	1347.6241
Classroom 207	Fall	2020	3rd Grade	Integrated Science	25.00	21	44.64	19.64	-19.64	385.7296
Classroom 208	Fall	2020	5th Grade	Social Studies	52.00	25	70.00	18.00	-18.00	324
Classroom 209	Fall	2020	3rd Grade	Social Studies	73.90	15	56.50	-17.40	17.40	302.76
Classroom 210	Fall	2020	3rd Grade	Language Arts	79.00	17	75.00	-4.00	4.00	16
Classroom 211	Fall	2020	9th Grade	Physical Education	74.00	20	90.30	16.30	-16.30	265.69
Classroom 212	Fall	2020	1st Grade	Language Arts	53.00	12	82.00	29.00	-29.00	841
Classroom 213	Fall	2020	1st Grade	Mathematics	50.10	12	71.40	21.30	-21.30	453.69
Classroom 214	Fall	2020	5th Grade	Integrated Science	16.22	18	61.07	44.85	-44.85	2011.5225
Classroom 215	Fall	2020	1st Grade	Integrated Science	43.00	15	92.00	49.00	-49.00	2401
Classroom 216	Fall	2020	2nd Grade	Social Studies	58.00	7	64.00	6.00	-6.00	36
Classroom 217	Fall	2020	3rd Grade	Social Studies	60.10	8	35.00	-25.10	25.10	630.01
Classroom 218	Fall	2020	1st Grade	Language Arts	89.50	11	93.60	4.10	-4.10	16.81
Classroom 219	Fall	2020	2nd Grade	Social Studies	60.00	7	64.00	4.00	-4.00	16
Classroom 220	Fall	2020	11th Grade	Mathematics	0.00	61	78.10	78.10	-78.10	6099.61
Classroom 221	Fall	2020	Kindergarten	Mathematics	84.00	6	100.00	16.00	-16.00	256
Classroom 222	Fall	2020	10th Grade	Mathematics	50.50	74	76.00	25.50	-25.50	650.25

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 223	Fall	2020	4th Grade	Language Arts	38.00	18	77.00	39.00	-39.00	1521
Classroom 224	Fall	2020	4th Grade	Social Studies	54.40	20	72.50	18.10	-18.10	327.61
Classroom 225	Fall	2020	9th Grade	Mathematics	4.00	5	40.00	36.00	-36.00	1296
Classroom 226	Fall	2020	3rd Grade	Mathematics	63.00	13	81.00	18.00	-18.00	324
Classroom 227	Fall	2020	Kindergarten	Music	64.20	83	78.70	14.50	-14.50	210.25
Classroom 228	Fall	2020	Kindergarten	Mathematics	55.00	10	82.00	27.00	-27.00	729
Classroom 229	Fall	2020	11th Grade	Art	52.50	42	76.00	23.50	-23.50	552.25
Classroom 230	Fall	2020	9th Grade	Social Studies	30.80	24	79.30	48.50	-48.50	2352.25
Classroom 231	Fall	2020	4th Grade	Language Arts	34.00	19	55.00	21.00	-21.00	441
Classroom 232	Fall	2020	11th Grade	Mathematics	36.55	14	97.64	61.09	-61.09	3731.9881
Classroom 233	Fall	2020	10th Grade	Chemistry	32.00	35	68.00	36.00	-36.00	1296
Classroom 234	Fall	2020	9th Grade	Social Studies	39.60	86	83.90	44.30	-44.30	1962.49
Classroom 235	Fall	2020	12th Grade	Art	83.30	114	90.00	6.70	-6.70	44.89

Number of Tests = N 235	Number of K-12 Students: 6616	Average % Improvement: 30.59	"X-Y" or "ED" -7187.90	"(X-Y)^2" or "ED^2" 343119.413
			L =Top Value (Σd/N)	-30.59
			M =Middle value	123264.49
			O =Bottom Value	54990.00
			P =Square root of M/O	1.50
			T = (L/P)	-20.43
			α = 0.05	Critical T = 1.645
				Significant
			T/Square Root of N = Effect	-1.333

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 28	Winter	2020	Kindergarten	Mathematics	32.00	18	89.75	57.75	-57.75	3335.0625
Classroom 37	Winter	2020	Kindergarten	Mathematics	55.00	18	88.00	33.00	-33.00	1089
Classroom 39	Winter	2020	Kindergarten	Mathematics	64.70	19	86.40	21.70	-21.70	470.89
Classroom 41	Winter	2020	Kindergarten	Integrated Science	59.44	25	93.38	33.94	-33.94	1151.9236
Classroom 42	Winter	2020	Kindergarten	Mathematics	80.39	20	97.87	17.48	-17.48	305.5504
Classroom 49	Winter	2020	Kindergarten	Integrated Science	62.00	17	70.00	8.00	-8.00	64
Classroom 141	Fall	2020	Kindergarten	Mathematics	18.00	13	43.00	25.00	-25.00	625
Classroom 145	Fall	2020	Kindergarten	Mathematics	40.00	15	100.00	60.00	-60.00	3600
Classroom 151	Fall	2020	Kindergarten	Mathematics	69.00	18	76.00	7.00	-7.00	49
Classroom 168	Fall	2020	Kindergarten	Language Arts	58.80	24	99.60	40.80	-40.80	1664.64
Classroom 174	Fall	2020	Kindergarten	Language Arts	39.00	25	82.00	43.00	-43.00	1849
Classroom 185	Fall	2020	Kindergarten	Integrated Science	65.00	20	82.00	17.00	-17.00	289
Classroom 186	Fall	2020	Kindergarten	Social Studies	52.29	14	91.14	38.85	-38.85	1509.3225
Classroom 198	Fall	2020	Kindergarten	Mathematics	60.00	13	80.00	20.00	-20.00	400
Classroom 202	Fall	2020	Kindergarten	Integrated Science	12.00	17	88.00	76.00	-76.00	5776
Classroom 221	Fall	2020	Kindergarten	Mathematics	84.00	6	100.00	16.00	-16.00	256
Classroom 227	Fall	2020	Kindergarten	Music	64.20	83	78.70	14.50	-14.50	210.25
Classroom 228	Fall	2020	Kindergarten	Mathematics	55.00	10	82.00	27.00	-27.00	729

Number of Tests = N 18	Number of K-12 Students: 372	Average % Improvement: 30.95	"X-Y" or "ED" -557.02	"(X-Y)^2" or "ED^2" 23373.639
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$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

L =Top Value (Σd/N)	-30.95
M =Middle value	6136.35
O =Bottom Value	306.00
P =Square root of M/O	4.48
T = (L/P)	-6.91
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.629

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 2	Winter	2020	1st Grade	Integrated Science	58.00	19	89.00	31.00	-31.00	961
Classroom 4	Winter	2020	1st Grade	Mathematics	81.00	21	96.00	15.00	-15.00	225
Classroom 13	Winter	2020	1st Grade	Mathematics	32.00	21	86.00	54.00	-54.00	2916
Classroom 20	Winter	2020	1st Grade	Mathematics	67.80	20	92.30	24.50	-24.50	600.25
Classroom 24	Winter	2020	1st Grade	Mathematics	33.50	21	90.00	56.50	-56.50	3192.25
Classroom 32	Winter	2020	1st Grade	Integrated Science	57.40	18	85.20	27.80	-27.80	772.84
Classroom 33	Winter	2020	1st Grade	Integrated Science	39.00	20	74.00	35.00	-35.00	1225
Classroom 34	Winter	2020	1st Grade	Integrated Science	54.00	16	79.00	25.00	-25.00	625
Classroom 47	Winter	2020	1st Grade	Mathematics	41.00	35	84.00	43.00	-43.00	1849
Classroom 50	Winter	2020	1st Grade	Mathematics	72.00	20	91.00	19.00	-19.00	361
Classroom 54	Winter	2020	1st Grade	Mathematics	69.00	23	82.50	13.50	-13.50	182.25
Classroom 57	Winter	2020	1st Grade	Language Arts	64.00	19	86.00	22.00	-22.00	484
Classroom 78	Winter	2020	1st Grade	Mathematics	84.00	23	91.00	7.00	-7.00	49
Classroom 112	Winter	2020	1st Grade	Mathematics	50.00	25	75.20	25.20	-25.20	635.04
Classroom 130	Fall	2020	1st Grade	Mathematics	67.00	17	67.00	0.00	0.00	0
Classroom 131	Fall	2020	1st Grade	Mathematics	40.00	15	86.67	46.67	-46.67	2178.0889
Classroom 132	Fall	2020	1st Grade	Mathematics	0.00	20	92.00	92.00	-92.00	8464
Classroom 133	Fall	2020	1st Grade	Language Arts	86.00	14	91.00	5.00	-5.00	25
Classroom 137	Fall	2020	1st Grade	Mathematics	87.00	15	91.00	4.00	-4.00	16
Classroom 143	Fall	2020	1st Grade	Language Arts	27.00	19	65.00	38.00	-38.00	1444
Classroom 148	Fall	2020	1st Grade	Mathematics	44.00	9	66.00	22.00	-22.00	484
Classroom 150	Fall	2020	1st Grade	Language Arts	75.00	24	96.00	21.00	-21.00	441
Classroom 157	Fall	2020	1st Grade	Language Arts	71.00	19	93.00	22.00	-22.00	484
Classroom 158	Fall	2020	1st Grade	Language Arts	28.60	11	88.75	60.15	-60.15	3618.0225
Classroom 163	Fall	2020	1st Grade	Mathematics	71.00	16	96.00	25.00	-25.00	625
Classroom 171	Fall	2020	1st Grade	Mathematics	78.00	16	83.00	5.00	-5.00	25
Classroom 173	Fall	2020	1st Grade	Mathematics	42.00	13	90.00	48.00	-48.00	2304
Classroom 175	Fall	2020	1st Grade	Mathematics	61.50	20	100.00	38.50	-38.50	1482.25
Classroom 176	Fall	2020	1st Grade	Mathematics	20.00	25	76.00	56.00	-56.00	3136
Classroom 182	Fall	2020	1st Grade	Mathematics	81.25	7	93.33	12.08	-12.08	145.9264
Classroom 199	Fall	2020	1st Grade	Integrated Science	67.00	21	86.00	19.00	-19.00	361
Classroom 201	Fall	2020	1st Grade	Mathematics	87.25	22	91.88	4.63	-4.63	21.4369
Classroom 205	Fall	2020	1st Grade	Mathematics	91.00	12	80.00	-11.00	11.00	121
Classroom 212	Fall	2020	1st Grade	Language Arts	53.00	12	82.00	29.00	-29.00	841
Classroom 213	Fall	2020	1st Grade	Mathematics	50.10	12	71.40	21.30	-21.30	453.69
Classroom 215	Fall	2020	1st Grade	Integrated Science	43.00	15	92.00	49.00	-49.00	2401
Classroom 218	Fall	2020	1st Grade	Language Arts	89.50	11	93.60	4.10	-4.10	16.81

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
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Number of Tests = N 37			Number of K-12 Students: 659			Average % Improvement: 27.30			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
									-1009.93	43165.8547
									L =Top Value ($\sum d/N$)	-27.30
									M =Middle value	15599.41
									O =Bottom Value	1332.00
									P =Square root of M/O	3.42
									T = (L/P)	-7.98
									$\alpha = 0.05$	Critical T = 1.645
										Significant
									T/Square Root of N = Effect	-1.311

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 5	Winter	2020	2nd Grade	Integrated Science	51.00	21	77.00	26.00	-26.00	676
Classroom 6	Winter	2020	2nd Grade	Mathematics	21.00	20	72.00	51.00	-51.00	2601
Classroom 10	Winter	2020	2nd Grade	Integrated Science	42.93	19	89.16	46.23	-46.23	2137.2129
Classroom 14	Winter	2020	2nd Grade	Integrated Science	60.00	20	81.00	21.00	-21.00	441
Classroom 25	Winter	2020	2nd Grade	Mathematics	57.00	20	84.00	27.00	-27.00	729
Classroom 31	Winter	2020	2nd Grade	Mathematics	44.00	19	98.00	54.00	-54.00	2916
Classroom 36	Winter	2020	2nd Grade	Mathematics	89.56	25	100.00	10.44	-10.44	108.9936
Classroom 52	Winter	2020	2nd Grade	Mathematics	34.00	19	69.00	35.00	-35.00	1225
Classroom 77	Winter	2020	2nd Grade	Mathematics	70.00	21	79.00	9.00	-9.00	81
Classroom 110	Winter	2020	2nd Grade	Integrated Science	100.00	2	100.00	0.00	0.00	0
Classroom 117	Winter	2020	2nd Grade	Art	70.00	23	90.00	20.00	-20.00	400
Classroom 134	Fall	2020	2nd Grade	Mathematics	45.00	24	71.00	26.00	-26.00	676
Classroom 144	Fall	2020	2nd Grade	Mathematics	47.00	18	48.00	1.00	-1.00	1
Classroom 169	Fall	2020	2nd Grade	Language Arts	73.75	15	95.38	21.63	-21.63	467.8569
Classroom 170	Fall	2020	2nd Grade	Mathematics	25.00	20	67.00	42.00	-42.00	1764
Classroom 179	Fall	2020	2nd Grade	Mathematics	86.00	18	85.00	-1.00	1.00	1
Classroom 183	Fall	2020	2nd Grade	Mathematics	49.00	22	78.00	29.00	-29.00	841
Classroom 184	Fall	2020	2nd Grade	Social Studies	32.50	10	53.75	21.25	-21.25	451.5625
Classroom 187	Fall	2020	2nd Grade	Mathematics	58.00	24	75.00	17.00	-17.00	289
Classroom 196	Fall	2020	2nd Grade	Integrated Science	11.00	9	90.00	79.00	-79.00	6241
Classroom 203	Fall	2020	2nd Grade	Social Studies	58.00	13	56.00	-2.00	2.00	4
Classroom 216	Fall	2020	2nd Grade	Social Studies	58.00	7	64.00	6.00	-6.00	36
Classroom 219	Fall	2020	2nd Grade	Social Studies	60.00	7	64.00	4.00	-4.00	16

Number of Tests = N 23	Number of K-12 Students: 393	Average % Improvement: 23.63	"X-Y" or "ED" -543.55	"(X-Y)^2" or "ED^2" 22103.6259
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$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

L =Top Value ($\sum d/N$)	-23.63
M =Middle value	9258.12
O =Bottom Value	506.00
P =Square root of M/O	4.28
T = (L/P)	-5.52
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.152

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 12	Winter	2020	3rd Grade	Mathematics	49.00	22	78.00	29.00	-29.00	841
Classroom 15	Winter	2020	3rd Grade	Social Studies	11.30	23	79.50	68.20	-68.20	4651.24
Classroom 16	Winter	2020	3rd Grade	Social Studies	68.00	26	83.00	15.00	-15.00	225
Classroom 18	Winter	2020	3rd Grade	Mathematics	66.00	21	83.00	17.00	-17.00	289
Classroom 19	Winter	2020	3rd Grade	Mathematics	40.50	26	88.72	48.22	-48.22	2325.1684
Classroom 21	Winter	2020	3rd Grade	Social Studies	45.85	23	76.40	30.55	-30.55	933.3025
Classroom 29	Winter	2020	3rd Grade	Integrated Science	61.00	16	79.00	18.00	-18.00	324
Classroom 35	Winter	2020	3rd Grade	Integrated Science	44.68	19	83.50	38.82	-38.82	1506.9924
Classroom 43	Winter	2020	3rd Grade	Mathematics	57.00	19	81.00	24.00	-24.00	576
Classroom 44	Winter	2020	3rd Grade	Physical Education	71.00	22	96.00	25.00	-25.00	625
Classroom 48	Winter	2020	3rd Grade	Mathematics	59.50	22	86.00	26.50	-26.50	702.25
Classroom 55	Winter	2020	3rd Grade	Mathematics	64.75	22	65.63	0.88	-0.88	0.7744
Classroom 56	Winter	2020	3rd Grade	Mathematics	45.00	25	92.00	47.00	-47.00	2209
Classroom 118	Winter	2020	3rd Grade	Physical Education	71.00	28	85.00	14.00	-14.00	196
Classroom 121	Fall	2020	3rd Grade	Mathematics	81.00	26	83.00	2.00	-2.00	4
Classroom 122	Fall	2020	3rd Grade	Mathematics	50.00	19	76.00	26.00	-26.00	676
Classroom 123	Fall	2020	3rd Grade	Mathematics	93.00	21	91.00	-2.00	2.00	4
Classroom 124	Fall	2020	3rd Grade	Mathematics	48.57	21	85.23	36.66	-36.66	1343.9556
Classroom 125	Fall	2020	3rd Grade	Mathematics	12.00	16	64.00	52.00	-52.00	2704
Classroom 126	Fall	2020	3rd Grade	Mathematics	56.00	16	87.00	31.00	-31.00	961
Classroom 127	Fall	2020	3rd Grade	Language Arts	49.40	19	70.00	20.60	-20.60	424.36
Classroom 129	Fall	2020	3rd Grade	Mathematics	56.00	18	86.00	30.00	-30.00	900
Classroom 135	Fall	2020	3rd Grade	Mathematics	60.80	39	54.62	-6.18	6.18	38.1924
Classroom 139	Fall	2020	3rd Grade	Mathematics	83.00	20	86.00	3.00	-3.00	9
Classroom 140	Fall	2020	3rd Grade	Mathematics	92.00	10	38.00	-54.00	54.00	2916
Classroom 146	Fall	2020	3rd Grade	Language Arts	61.00	20	91.00	30.00	-30.00	900
Classroom 149	Fall	2020	3rd Grade	Mathematics	38.30	13	45.70	7.40	-7.40	54.76
Classroom 194	Fall	2020	3rd Grade	Mathematics	54.00	18	88.00	34.00	-34.00	1156
Classroom 200	Fall	2020	3rd Grade	Mathematics	65.00	7	87.00	22.00	-22.00	484
Classroom 207	Fall	2020	3rd Grade	Integrated Science	25.00	21	44.64	19.64	-19.64	385.7296
Classroom 209	Fall	2020	3rd Grade	Social Studies	73.90	15	56.50	-17.40	17.40	302.76
Classroom 210	Fall	2020	3rd Grade	Language Arts	79.00	17	75.00	-4.00	4.00	16
Classroom 217	Fall	2020	3rd Grade	Social Studies	60.10	8	35.00	-25.10	25.10	630.01
Classroom 226	Fall	2020	3rd Grade	Mathematics	63.00	13	81.00	18.00	-18.00	324

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
34	665	18.41	-625.79	29638.4953

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$									L =Top Value ($\sum d/N$)	-18.41
									M =Middle value	18120.46
									O =Bottom Value	1122.00
									P =Square root of M/O	4.02
									T = (L/P)	-4.58
									$\alpha = 0.05$	Critical T = 1.645
										Significant
									T/Square Root of N = Effect	-0.785

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 1	Winter	2020	4th Grade	Integrated Science	33.00	18	93.00	60.00	-60.00	3600
Classroom 11	Winter	2020	4th Grade	Mathematics	61.00	22	63.00	2.00	-2.00	4
Classroom 17	Winter	2020	4th Grade	Language Arts	22.00	20	95.00	73.00	-73.00	5329
Classroom 23	Winter	2020	4th Grade	Mathematics	70.00	22	86.00	16.00	-16.00	256
Classroom 26	Winter	2020	4th Grade	Mathematics	25.20	18	82.10	56.90	-56.90	3237.61
Classroom 27	Winter	2020	4th Grade	Mathematics	16.40	25	59.60	43.20	-43.20	1866.24
Classroom 30	Winter	2020	4th Grade	Mathematics	49.71	27	78.28	28.57	-28.57	816.2449
Classroom 38	Winter	2020	4th Grade	Mathematics	59.00	26	78.00	19.00	-19.00	361
Classroom 40	Winter	2020	4th Grade	Integrated Science	40.34	25	56.25	15.91	-15.91	253.1281
Classroom 60	Winter	2020	4th Grade	Social Studies	27.50	26	83.00	55.50	-55.50	3080.25
Classroom 81	Winter	2020	4th Grade	Mathematics	15.00	28	78.60	63.60	-63.60	4044.96
Classroom 82	Winter	2020	4th Grade	Social Studies	72.50	25	97.50	25.00	-25.00	625
Classroom 83	Winter	2020	4th Grade	Integrated Science	44.00	26	74.00	30.00	-30.00	900
Classroom 86	Winter	2020	4th Grade	Mathematics	29.20	17	62.30	33.10	-33.10	1095.61
Classroom 94	Winter	2020	4th Grade	Language Arts	48.90	20	75.00	26.10	-26.10	681.21
Classroom 113	Winter	2020	4th Grade	Physical Education	14.30	20	42.90	28.60	-28.60	817.96
Classroom 128	Fall	2020	4th Grade	Integrated Science	26.20	21	60.30	34.10	-34.10	1162.81
Classroom 153	Fall	2020	4th Grade	Mathematics	64.00	19	82.00	18.00	-18.00	324
Classroom 156	Fall	2020	4th Grade	Language Arts	4.38	20	91.25	86.87	-86.87	7546.3969
Classroom 159	Fall	2020	4th Grade	Language Arts	62.50	11	50.00	-12.50	12.50	156.25
Classroom 172	Fall	2020	4th Grade	Mathematics	19.00	13	68.00	49.00	-49.00	2401
Classroom 181	Fall	2020	4th Grade	Mathematics	7.95	21	87.40	79.45	-79.45	6312.3025
Classroom 192	Fall	2020	4th Grade	Mathematics	35.00	4	75.00	40.00	-40.00	1600
Classroom 193	Fall	2020	4th Grade	Mathematics	17.00	18	74.00	57.00	-57.00	3249
Classroom 197	Fall	2020	4th Grade	Mathematics	62.60	16	80.00	17.40	-17.40	302.76
Classroom 223	Fall	2020	4th Grade	Language Arts	38.00	18	77.00	39.00	-39.00	1521
Classroom 224	Fall	2020	4th Grade	Social Studies	54.40	20	72.50	18.10	-18.10	327.61
Classroom 231	Fall	2020	4th Grade	Language Arts	34.00	19	55.00	21.00	-21.00	441

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
28	559	36.57	-1023.90	52312.3424

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2}{N}}}$$

L =Top Value (Σd/N)	-36.57
M =Middle value	14870.51
O =Bottom Value	756.00
P =Square root of M/O	4.44
T = (L/P)	-8.25

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
							$\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$	∞ = 0.05	Critical T = 1.645	
									Significant	
								T/Square Root of N = Effect	-1.558	

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 9	Winter	2020	5th Grade	Mathematics	6.00	21	41.00	35.00	-35.00	1225
Classroom 22	Winter	2020	5th Grade	Mathematics	21.00	20	65.00	44.00	-44.00	1936
Classroom 45	Winter	2020	5th Grade	Mathematics	44.50	17	65.00	20.50	-20.50	420.25
Classroom 46	Winter	2020	5th Grade	Integrated Science	41.00	17	69.00	28.00	-28.00	784
Classroom 51	Winter	2020	5th Grade	Mathematics	37.00	26	85.00	48.00	-48.00	2304
Classroom 84	Winter	2020	5th Grade	Mathematics	48.00	22	78.00	30.00	-30.00	900
Classroom 109	Winter	2020	5th Grade	Art	62.80	23	80.00	17.20	-17.20	295.84
Classroom 136	Fall	2020	5th Grade	Language Arts	32.00	17	87.00	55.00	-55.00	3025
Classroom 142	Fall	2020	5th Grade	Language Arts	72.14	15	86.67	14.53	-14.53	211.1209
Classroom 147	Fall	2020	5th Grade	Language Arts	52.50	24	77.30	24.80	-24.80	615.04
Classroom 152	Fall	2020	5th Grade	Mathematics	45.70	19	75.56	29.86	-29.86	891.6196
Classroom 155	Fall	2020	5th Grade	Mathematics	21.14	16	24.77	3.63	-3.63	13.1769
Classroom 160	Fall	2020	5th Grade	Social Studies	58.00	19	91.00	33.00	-33.00	1089
Classroom 161	Fall	2020	5th Grade	Integrated Science	44.00	19	82.00	38.00	-38.00	1444
Classroom 162	Fall	2020	5th Grade	Language Arts	68.57	21	80.95	12.38	-12.38	153.2644
Classroom 178	Fall	2020	5th Grade	Mathematics	48.00	30	75.00	27.00	-27.00	729
Classroom 180	Fall	2020	5th Grade	Language Arts	45.90	16	53.60	7.70	-7.70	59.29
Classroom 188	Fall	2020	5th Grade	Integrated Science	55.36	21	84.38	29.02	-29.02	842.1604
Classroom 189	Fall	2020	5th Grade	Mathematics	55.00	14	58.00	3.00	-3.00	9
Classroom 190	Fall	2020	5th Grade	Language Arts	51.00	19	38.00	-13.00	13.00	169
Classroom 191	Fall	2020	5th Grade	Social Studies	13.00	24	79.00	66.00	-66.00	4356
Classroom 195	Fall	2020	5th Grade	Language Arts	55.00	14	80.00	25.00	-25.00	625
Classroom 208	Fall	2020	5th Grade	Social Studies	52.00	25	70.00	18.00	-18.00	324
Classroom 214	Fall	2020	5th Grade	Integrated Science	16.22	18	61.07	44.85	-44.85	2011.5225

Number of Tests = N 24	Number of K-12 Students: 473	Average % Improvement: 26.73	"X-Y" or "ED" -641.47	"(X-Y)^2" or "ED^2" 24432.2847
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$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N-1}}}$$

L =Top Value (Σd/N)	-26.73
M =Middle value	7287.13
O =Bottom Value	552.00
P =Square root of M/O	3.63
T = (L/P)	-7.36
α = 0.05	Critical T = 1.645
	Significant

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
									T/Square Root of N = Effect	-1.502

$$\sqrt{N(N-1)}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 62	Winter	2020	6th Grade	Music	6.00	15	76.00	70.00	-70.00	4900
Classroom 74	Winter	2020	6th Grade	Music	20.00	42	81.00	61.00	-61.00	3721
Classroom 75	Winter	2020	6th Grade	Music	71.43	55	85.71	14.28	-14.28	203.9184
Classroom 79	Winter	2020	6th Grade	Mathematics	9.99	74	58.30	48.31	-48.31	2333.8561
Classroom 88	Winter	2020	6th Grade	Language Arts	30.00	62	33.00	3.00	-3.00	9
Classroom 105	Winter	2020	6th Grade	Language Arts	40.80	134	82.30	41.50	-41.50	1722.25
Classroom 114	Winter	2020	6th Grade	Geography	51.00	23	93.00	42.00	-42.00	1764
Classroom 138	Fall	2020	6th Grade	Social Studies	11.00	49	78.00	67.00	-67.00	4489
Classroom 154	Fall	2020	6th Grade	Language Arts	42.50	5	85.00	42.50	-42.50	1806.25
Classroom 8	Winter	2020	7th Grade	Social Studies	55.47	113	87.21	31.74	-31.74	1007.4276
Classroom 68	Winter	2020	7th Grade	Social Studies	76.00	18	82.00	6.00	-6.00	36
Classroom 76	Winter	2020	7th Grade	Earth Science	64.28	28	76.32	12.04	-12.04	144.9616
Classroom 80	Winter	2020	7th Grade	Mathematics	16.00	65	80.00	64.00	-64.00	4096
Classroom 85	Winter	2020	7th Grade	Language Arts	31.00	30	78.60	47.60	-47.60	2265.76
Classroom 91	Winter	2020	7th Grade	Language Arts	24.00	26	70.00	46.00	-46.00	2116
Classroom 104	Winter	2020	7th Grade	Social Studies	53.73	20	86.88	33.15	-33.15	1098.9225
Classroom 116	Winter	2020	7th Grade	Language Arts	61.58	109	75.42	13.84	-13.84	191.5456
Classroom 206	Fall	2020	7th Grade	Language Arts	54.43	90	91.14	36.71	-36.71	1347.6241
Classroom 53	Winter	2020	8th Grade	Mathematics	1.00	30	83.00	82.00	-82.00	6724
Classroom 69	Winter	2020	8th Grade	Music	28.00	36	94.00	66.00	-66.00	4356
Classroom 70	Winter	2020	8th Grade	Music	37.50	35	80.00	42.50	-42.50	1806.25
Classroom 72	Winter	2020	8th Grade	Spanish	34.00	22	86.20	52.20	-52.20	2724.84
Classroom 107	Winter	2020	8th Grade	Language Arts	53.80	107	93.80	40.00	-40.00	1600
Classroom 115	Winter	2020	8th Grade	Social Studies	45.60	60	76.00	30.40	-30.40	924.16

Number of Tests = N 24	Number of K-12 Students: 1246	Average % Improvement: 41.41	"X-Y" or "ED" -993.77	"(X-Y)^2" or "ED^2" 51388.7659
			L =Top Value (Σd/N)	-41.41
			M =Middle value	10239.65
			O =Bottom Value	552.00
			P =Square root of M/O	4.31
			T = (L/P)	-9.61
			α = 0.05	Critical T = 1.645
				Significant

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N-1}}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
									T/Square Root of N = Effect	-1.962

$$\sqrt{N(N-1)}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 3	Winter	2020	10th Grade	Social Studies	70.70	23	89.26	18.56	-18.56	344.4736
Classroom 7	Winter	2020	10th Grade	Mathematics	65.00	65	56.00	-9.00	9.00	81
Classroom 58	Winter	2020	10th Grade	French	25.00	26	84.00	59.00	-59.00	3481
Classroom 66	Winter	2020	10th Grade	Social Studies	39.75	70	71.50	31.75	-31.75	1008.0625
Classroom 90	Winter	2020	10th Grade	English	40.00	58	95.86	55.86	-55.86	3120.3396
Classroom 95	Winter	2020	10th Grade	English	44.60	21	90.15	45.55	-45.55	2074.8025
Classroom 98	Winter	2020	10th Grade	Art	84.80	23	80.93	-3.87	3.87	14.9769
Classroom 103	Winter	2020	10th Grade	Spanish	47.00	26	100.00	53.00	-53.00	2809
Classroom 106	Winter	2020	10th Grade	Chemistry	16.94	112	72.08	55.14	-55.14	3040.4196
Classroom 111	Winter	2020	10th Grade	Music	70.00	66	93.00	23.00	-23.00	529
Classroom 165	Fall	2020	10th Grade	Social Studies	40.00	21	83.50	43.50	-43.50	1892.25
Classroom 177	Fall	2020	10th Grade	Social Studies	43.50	101	94.70	51.20	-51.20	2621.44
Classroom 204	Fall	2020	10th Grade	Mathematics	46.00	46	85.00	39.00	-39.00	1521
Classroom 222	Fall	2020	10th Grade	Mathematics	50.50	74	76.00	25.50	-25.50	650.25
Classroom 233	Fall	2020	10th Grade	Chemistry	32.00	35	68.00	36.00	-36.00	1296
Classroom 59	Winter	2020	11th Grade	Mathematics	21.00	49	96.00	75.00	-75.00	5625
Classroom 61	Winter	2020	11th Grade	Music	70.00	90	100.00	30.00	-30.00	900
Classroom 73	Winter	2020	11th Grade	Art	50.00	36	70.00	20.00	-20.00	400
Classroom 89	Winter	2020	11th Grade	Mathematics	20.00	29	50.00	30.00	-30.00	900
Classroom 101	Winter	2020	11th Grade	English	36.00	66	77.00	41.00	-41.00	1681
Classroom 108	Winter	2020	11th Grade	English	48.00	89	91.50	43.50	-43.50	1892.25
Classroom 220	Fall	2020	11th Grade	Mathematics	0.00	61	78.10	78.10	-78.10	6099.61
Classroom 229	Fall	2020	11th Grade	Art	52.50	42	76.00	23.50	-23.50	552.25
Classroom 232	Fall	2020	11th Grade	Mathematics	36.55	14	97.64	61.09	-61.09	3731.9881
Classroom 65	Winter	2020	12th Grade	English	19.20	51	83.50	64.30	-64.30	4134.49
Classroom 92	Winter	2020	12th Grade	English	37.30	33	89.17	51.87	-51.87	2690.4969
Classroom 97	Winter	2020	12th Grade	English	40.00	42	57.00	17.00	-17.00	289
Classroom 164	Fall	2020	12th Grade	English	0.00	30	100.00	100.00	-100.00	10000
Classroom 166	Fall	2020	12th Grade	Social Studies	58.00	46	93.00	35.00	-35.00	1225
Classroom 235	Fall	2020	12th Grade	Art	83.30	114	90.00	6.70	-6.70	44.89
Classroom 63	Winter	2020	9th Grade	Music	65.00	27	90.00	25.00	-25.00	625
Classroom 64	Winter	2020	9th Grade	Music	75.00	27	45.00	-30.00	30.00	900
Classroom 67	Winter	2020	9th Grade	Social Studies	53.33	71	82.60	29.27	-29.27	856.7329
Classroom 71	Winter	2020	9th Grade	Mathematics	12.50	64	89.00	76.50	-76.50	5852.25
Classroom 87	Winter	2020	9th Grade	English	40.65	49	84.20	43.55	-43.55	1896.6025
Classroom 93	Winter	2020	9th Grade	Spanish	18.50	42	95.00	76.50	-76.50	5852.25
Classroom 96	Winter	2020	9th Grade	Physical Education	86.00	45	89.00	3.00	-3.00	9

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 99	Winter	2020	9th Grade	Biology	23.00	36	86.00	63.00	-63.00	3969
Classroom 100	Winter	2020	9th Grade	English	60.00	25	81.00	21.00	-21.00	441
Classroom 102	Winter	2020	9th Grade	Mathematics	29.50	21	80.60	51.10	-51.10	2611.21
Classroom 119	Winter	2020	9th Grade	Social Studies	37.60	120	66.30	28.70	-28.70	823.69
Classroom 120	Winter	2020	9th Grade	French	43.00	24	90.00	47.00	-47.00	2209
Classroom 167	Fall	2020	9th Grade	Art	85.70	10	97.20	11.50	-11.50	132.25
Classroom 211	Fall	2020	9th Grade	Physical Education	74.00	20	90.30	16.30	-16.30	265.69
Classroom 225	Fall	2020	9th Grade	Mathematics	4.00	5	40.00	36.00	-36.00	1296
Classroom 230	Fall	2020	9th Grade	Social Studies	30.80	24	79.30	48.50	-48.50	2352.25
Classroom 234	Fall	2020	9th Grade	Social Studies	39.60	86	83.90	44.30	-44.30	1962.49

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
47	2251	38.14	-1792.47	96704.4051
			L =Top Value ($\sum d/N$)	-38.14
			M =Middle value	28343.79
			O =Bottom Value	2162.00
			P =Square root of M/O	3.62
			T = (L/P)	-10.53
			$\alpha = 0.05$	Critical T = 1.645
				Significant
			T/Square Root of N = Effect	-1.536

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 73	Winter	2020	11th Grade	Art	50.00	36	70.00	20.00	-20.00	400
Classroom 98	Winter	2020	10th Grade	Art	84.80	23	80.93	-3.87	3.87	14.9769
Classroom 109	Winter	2020	5th Grade	Art	62.80	23	80.00	17.20	-17.20	295.84
Classroom 117	Winter	2020	2nd Grade	Art	70.00	23	90.00	20.00	-20.00	400
Classroom 167	Fall	2020	9th Grade	Art	85.70	10	97.20	11.50	-11.50	132.25
Classroom 229	Fall	2020	11th Grade	Art	52.50	42	76.00	23.50	-23.50	552.25
Classroom 235	Fall	2020	12th Grade	Art	83.30	114	90.00	6.70	-6.70	44.89

Number of Tests = N 7	Number of K-12 Students: 271	Average % Improvement: 13.58	"X-Y" or "ED" -95.03	"(X-Y)^2" or "ED^2" 1840.2069
			L =Top Value ($\sum d/N$)	-13.58
			M =Middle value	550.11
			O =Bottom Value	42.00
			P =Square root of M/O	3.62
			T = (L/P)	-3.75
			$\alpha = 0.05$	Critical T = 1.645
				Significant
			T/Square Root of N = Effect	-1.418

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 17	Winter	2020	4th Grade	Language Arts	22.00	20	95.00	73.00	-73.00	5329
Classroom 57	Winter	2020	1st Grade	Language Arts	64.00	19	86.00	22.00	-22.00	484
Classroom 65	Winter	2020	12th Grade	English	19.20	51	83.50	64.30	-64.30	4134.49
Classroom 85	Winter	2020	7th Grade	Language Arts	31.00	30	78.60	47.60	-47.60	2265.76
Classroom 87	Winter	2020	9th Grade	English	40.65	49	84.20	43.55	-43.55	1896.6025
Classroom 88	Winter	2020	6th Grade	Language Arts	30.00	62	33.00	3.00	-3.00	9
Classroom 90	Winter	2020	10th Grade	English	40.00	58	95.86	55.86	-55.86	3120.3396
Classroom 91	Winter	2020	7th Grade	Language Arts	24.00	26	70.00	46.00	-46.00	2116
Classroom 92	Winter	2020	12th Grade	English	37.30	33	89.17	51.87	-51.87	2690.4969
Classroom 94	Winter	2020	4th Grade	Language Arts	48.90	20	75.00	26.10	-26.10	681.21
Classroom 95	Winter	2020	10th Grade	English	44.60	21	90.15	45.55	-45.55	2074.8025
Classroom 97	Winter	2020	12th Grade	English	40.00	42	57.00	17.00	-17.00	289
Classroom 100	Winter	2020	9th Grade	English	60.00	25	81.00	21.00	-21.00	441
Classroom 101	Winter	2020	11th Grade	English	36.00	66	77.00	41.00	-41.00	1681
Classroom 105	Winter	2020	6th Grade	Language Arts	40.80	134	82.30	41.50	-41.50	1722.25
Classroom 107	Winter	2020	8th Grade	Language Arts	53.80	107	93.80	40.00	-40.00	1600
Classroom 108	Winter	2020	11th Grade	English	48.00	89	91.50	43.50	-43.50	1892.25
Classroom 116	Winter	2020	7th Grade	Language Arts	61.58	109	75.42	13.84	-13.84	191.5456
Classroom 127	Fall	2020	3rd Grade	Language Arts	49.40	19	70.00	20.60	-20.60	424.36
Classroom 133	Fall	2020	1st Grade	Language Arts	86.00	14	91.00	5.00	-5.00	25
Classroom 136	Fall	2020	5th Grade	Language Arts	32.00	17	87.00	55.00	-55.00	3025
Classroom 142	Fall	2020	5th Grade	Language Arts	72.14	15	86.67	14.53	-14.53	211.1209
Classroom 143	Fall	2020	1st Grade	Language Arts	27.00	19	65.00	38.00	-38.00	1444
Classroom 146	Fall	2020	3rd Grade	Language Arts	61.00	20	91.00	30.00	-30.00	900
Classroom 147	Fall	2020	5th Grade	Language Arts	52.50	24	77.30	24.80	-24.80	615.04
Classroom 150	Fall	2020	1st Grade	Language Arts	75.00	24	96.00	21.00	-21.00	441
Classroom 154	Fall	2020	6th Grade	Language Arts	42.50	5	85.00	42.50	-42.50	1806.25
Classroom 156	Fall	2020	4th Grade	Language Arts	4.38	20	91.25	86.87	-86.87	7546.3969
Classroom 157	Fall	2020	1st Grade	Language Arts	71.00	19	93.00	22.00	-22.00	484
Classroom 158	Fall	2020	1st Grade	Language Arts	28.60	11	88.75	60.15	-60.15	3618.0225
Classroom 159	Fall	2020	4th Grade	Language Arts	62.50	11	50.00	-12.50	12.50	156.25
Classroom 162	Fall	2020	5th Grade	Language Arts	68.57	21	80.95	12.38	-12.38	153.2644
Classroom 164	Fall	2020	12th Grade	English	0.00	30	100.00	100.00	-100.00	10000
Classroom 168	Fall	2020	Kindergarten	Language Arts	58.80	24	99.60	40.80	-40.80	1664.64
Classroom 169	Fall	2020	2nd Grade	Language Arts	73.75	15	95.38	21.63	-21.63	467.8569
Classroom 174	Fall	2020	Kindergarten	Language Arts	39.00	25	82.00	43.00	-43.00	1849
Classroom 180	Fall	2020	5th Grade	Language Arts	45.90	16	53.60	7.70	-7.70	59.29

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 190	Fall	2020	5th Grade	Language Arts	51.00	19	38.00	-13.00	13.00	169
Classroom 195	Fall	2020	5th Grade	Language Arts	55.00	14	80.00	25.00	-25.00	625
Classroom 206	Fall	2020	7th Grade	Language Arts	54.43	90	91.14	36.71	-36.71	1347.6241
Classroom 210	Fall	2020	3rd Grade	Language Arts	79.00	17	75.00	-4.00	4.00	16
Classroom 212	Fall	2020	1st Grade	Language Arts	53.00	12	82.00	29.00	-29.00	841
Classroom 218	Fall	2020	1st Grade	Language Arts	89.50	11	93.60	4.10	-4.10	16.81
Classroom 223	Fall	2020	4th Grade	Language Arts	38.00	18	77.00	39.00	-39.00	1521
Classroom 231	Fall	2020	4th Grade	Language Arts	34.00	19	55.00	21.00	-21.00	441

Number of Tests = N 45	Number of K-12 Students: 1502	Average % Improvement: 32.62	"X-Y" or "ED" -1467.94	"(X-Y)^2" or "ED^2" 72486.6728
			L =Top Value ($\sum d/N$)	-32.62
			M =Middle value	24601.17
			O =Bottom Value	1980.00
			P =Square root of M/O	3.52
			T = (L/P)	-9.25
			$\alpha = 0.05$	Critical T = 1.645
			T/Square Root of N = Effect	-1.380

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 4	Winter	2020	1st Grade	Mathematics	81.00	21	96.00	15.00	-15.00	225
Classroom 6	Winter	2020	2nd Grade	Mathematics	21.00	20	72.00	51.00	-51.00	2601
Classroom 7	Winter	2020	10th Grade	Mathematics	65.00	65	56.00	-9.00	9.00	81
Classroom 9	Winter	2020	5th Grade	Mathematics	6.00	21	41.00	35.00	-35.00	1225
Classroom 11	Winter	2020	4th Grade	Mathematics	61.00	22	63.00	2.00	-2.00	4
Classroom 12	Winter	2020	3rd Grade	Mathematics	49.00	22	78.00	29.00	-29.00	841
Classroom 13	Winter	2020	1st Grade	Mathematics	32.00	21	86.00	54.00	-54.00	2916
Classroom 18	Winter	2020	3rd Grade	Mathematics	66.00	21	83.00	17.00	-17.00	289
Classroom 19	Winter	2020	3rd Grade	Mathematics	40.50	26	88.72	48.22	-48.22	2325.1684
Classroom 20	Winter	2020	1st Grade	Mathematics	67.80	20	92.30	24.50	-24.50	600.25
Classroom 22	Winter	2020	5th Grade	Mathematics	21.00	20	65.00	44.00	-44.00	1936
Classroom 23	Winter	2020	4th Grade	Mathematics	70.00	22	86.00	16.00	-16.00	256
Classroom 24	Winter	2020	1st Grade	Mathematics	33.50	21	90.00	56.50	-56.50	3192.25
Classroom 25	Winter	2020	2nd Grade	Mathematics	57.00	20	84.00	27.00	-27.00	729
Classroom 26	Winter	2020	4th Grade	Mathematics	25.20	18	82.10	56.90	-56.90	3237.61
Classroom 27	Winter	2020	4th Grade	Mathematics	16.40	25	59.60	43.20	-43.20	1866.24
Classroom 28	Winter	2020	Kindergarten	Mathematics	32.00	18	89.75	57.75	-57.75	3335.0625
Classroom 30	Winter	2020	4th Grade	Mathematics	49.71	27	78.28	28.57	-28.57	816.2449
Classroom 31	Winter	2020	2nd Grade	Mathematics	44.00	19	98.00	54.00	-54.00	2916
Classroom 36	Winter	2020	2nd Grade	Mathematics	89.56	25	100.00	10.44	-10.44	108.9936
Classroom 37	Winter	2020	Kindergarten	Mathematics	55.00	18	88.00	33.00	-33.00	1089
Classroom 38	Winter	2020	4th Grade	Mathematics	59.00	26	78.00	19.00	-19.00	361
Classroom 39	Winter	2020	Kindergarten	Mathematics	64.70	19	86.40	21.70	-21.70	470.89
Classroom 42	Winter	2020	Kindergarten	Mathematics	80.39	20	97.87	17.48	-17.48	305.5504
Classroom 43	Winter	2020	3rd Grade	Mathematics	57.00	19	81.00	24.00	-24.00	576
Classroom 45	Winter	2020	5th Grade	Mathematics	44.50	17	65.00	20.50	-20.50	420.25
Classroom 47	Winter	2020	1st Grade	Mathematics	41.00	35	84.00	43.00	-43.00	1849
Classroom 48	Winter	2020	3rd Grade	Mathematics	59.50	22	86.00	26.50	-26.50	702.25
Classroom 50	Winter	2020	1st Grade	Mathematics	72.00	20	91.00	19.00	-19.00	361
Classroom 51	Winter	2020	5th Grade	Mathematics	37.00	26	85.00	48.00	-48.00	2304
Classroom 52	Winter	2020	2nd Grade	Mathematics	34.00	19	69.00	35.00	-35.00	1225
Classroom 53	Winter	2020	8th Grade	Mathematics	1.00	30	83.00	82.00	-82.00	6724
Classroom 54	Winter	2020	1st Grade	Mathematics	69.00	23	82.50	13.50	-13.50	182.25
Classroom 55	Winter	2020	3rd Grade	Mathematics	64.75	22	65.63	0.88	-0.88	0.7744
Classroom 56	Winter	2020	3rd Grade	Mathematics	45.00	25	92.00	47.00	-47.00	2209
Classroom 59	Winter	2020	11th Grade	Mathematics	21.00	49	96.00	75.00	-75.00	5625
Classroom 71	Winter	2020	9th Grade	Mathematics	12.50	64	89.00	76.50	-76.50	5852.25

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 77	Winter	2020	2nd Grade	Mathematics	70.00	21	79.00	9.00	-9.00	81
Classroom 78	Winter	2020	1st Grade	Mathematics	84.00	23	91.00	7.00	-7.00	49
Classroom 79	Winter	2020	6th Grade	Mathematics	9.99	74	58.30	48.31	-48.31	2333.8561
Classroom 80	Winter	2020	7th Grade	Mathematics	16.00	65	80.00	64.00	-64.00	4096
Classroom 81	Winter	2020	4th Grade	Mathematics	15.00	28	78.60	63.60	-63.60	4044.96
Classroom 84	Winter	2020	5th Grade	Mathematics	48.00	22	78.00	30.00	-30.00	900
Classroom 86	Winter	2020	4th Grade	Mathematics	29.20	17	62.30	33.10	-33.10	1095.61
Classroom 89	Winter	2020	11th Grade	Mathematics	20.00	29	50.00	30.00	-30.00	900
Classroom 102	Winter	2020	9th Grade	Mathematics	29.50	21	80.60	51.10	-51.10	2611.21
Classroom 112	Winter	2020	1st Grade	Mathematics	50.00	25	75.20	25.20	-25.20	635.04
Classroom 121	Fall	2020	3rd Grade	Mathematics	81.00	26	83.00	2.00	-2.00	4
Classroom 122	Fall	2020	3rd Grade	Mathematics	50.00	19	76.00	26.00	-26.00	676
Classroom 123	Fall	2020	3rd Grade	Mathematics	93.00	21	91.00	-2.00	2.00	4
Classroom 124	Fall	2020	3rd Grade	Mathematics	48.57	21	85.23	36.66	-36.66	1343.9556
Classroom 125	Fall	2020	3rd Grade	Mathematics	12.00	16	64.00	52.00	-52.00	2704
Classroom 126	Fall	2020	3rd Grade	Mathematics	56.00	16	87.00	31.00	-31.00	961
Classroom 129	Fall	2020	3rd Grade	Mathematics	56.00	18	86.00	30.00	-30.00	900
Classroom 130	Fall	2020	1st Grade	Mathematics	67.00	17	67.00	0.00	0.00	0
Classroom 131	Fall	2020	1st Grade	Mathematics	40.00	15	86.67	46.67	-46.67	2178.0889
Classroom 132	Fall	2020	1st Grade	Mathematics	0.00	20	92.00	92.00	-92.00	8464
Classroom 134	Fall	2020	2nd Grade	Mathematics	45.00	24	71.00	26.00	-26.00	676
Classroom 135	Fall	2020	3rd Grade	Mathematics	60.80	39	54.62	-6.18	6.18	38.1924
Classroom 137	Fall	2020	1st Grade	Mathematics	87.00	15	91.00	4.00	-4.00	16
Classroom 139	Fall	2020	3rd Grade	Mathematics	83.00	20	86.00	3.00	-3.00	9
Classroom 140	Fall	2020	3rd Grade	Mathematics	92.00	10	38.00	-54.00	54.00	2916
Classroom 141	Fall	2020	Kindergarten	Mathematics	18.00	13	43.00	25.00	-25.00	625
Classroom 144	Fall	2020	2nd Grade	Mathematics	47.00	18	48.00	1.00	-1.00	1
Classroom 145	Fall	2020	Kindergarten	Mathematics	40.00	15	100.00	60.00	-60.00	3600
Classroom 148	Fall	2020	1st Grade	Mathematics	44.00	9	66.00	22.00	-22.00	484
Classroom 149	Fall	2020	3rd Grade	Mathematics	38.30	13	45.70	7.40	-7.40	54.76
Classroom 151	Fall	2020	Kindergarten	Mathematics	69.00	18	76.00	7.00	-7.00	49
Classroom 152	Fall	2020	5th Grade	Mathematics	45.70	19	75.56	29.86	-29.86	891.6196
Classroom 153	Fall	2020	4th Grade	Mathematics	64.00	19	82.00	18.00	-18.00	324
Classroom 155	Fall	2020	5th Grade	Mathematics	21.14	16	24.77	3.63	-3.63	13.1769
Classroom 163	Fall	2020	1st Grade	Mathematics	71.00	16	96.00	25.00	-25.00	625
Classroom 170	Fall	2020	2nd Grade	Mathematics	25.00	20	67.00	42.00	-42.00	1764
Classroom 171	Fall	2020	1st Grade	Mathematics	78.00	16	83.00	5.00	-5.00	25

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 172	Fall	2020	4th Grade	Mathematics	19.00	13	68.00	49.00	-49.00	2401
Classroom 173	Fall	2020	1st Grade	Mathematics	42.00	13	90.00	48.00	-48.00	2304
Classroom 175	Fall	2020	1st Grade	Mathematics	61.50	20	100.00	38.50	-38.50	1482.25
Classroom 176	Fall	2020	1st Grade	Mathematics	20.00	25	76.00	56.00	-56.00	3136
Classroom 178	Fall	2020	5th Grade	Mathematics	48.00	30	75.00	27.00	-27.00	729
Classroom 179	Fall	2020	2nd Grade	Mathematics	86.00	18	85.00	-1.00	1.00	1
Classroom 181	Fall	2020	4th Grade	Mathematics	7.95	21	87.40	79.45	-79.45	6312.3025
Classroom 182	Fall	2020	1st Grade	Mathematics	81.25	7	93.33	12.08	-12.08	145.9264
Classroom 183	Fall	2020	2nd Grade	Mathematics	49.00	22	78.00	29.00	-29.00	841
Classroom 187	Fall	2020	2nd Grade	Mathematics	58.00	24	75.00	17.00	-17.00	289
Classroom 189	Fall	2020	5th Grade	Mathematics	55.00	14	58.00	3.00	-3.00	9
Classroom 192	Fall	2020	4th Grade	Mathematics	35.00	4	75.00	40.00	-40.00	1600
Classroom 193	Fall	2020	4th Grade	Mathematics	17.00	18	74.00	57.00	-57.00	3249
Classroom 194	Fall	2020	3rd Grade	Mathematics	54.00	18	88.00	34.00	-34.00	1156
Classroom 197	Fall	2020	4th Grade	Mathematics	62.60	16	80.00	17.40	-17.40	302.76
Classroom 198	Fall	2020	Kindergarten	Mathematics	60.00	13	80.00	20.00	-20.00	400
Classroom 200	Fall	2020	3rd Grade	Mathematics	65.00	7	87.00	22.00	-22.00	484
Classroom 201	Fall	2020	1st Grade	Mathematics	87.25	22	91.88	4.63	-4.63	21.4369
Classroom 204	Fall	2020	10th Grade	Mathematics	46.00	46	85.00	39.00	-39.00	1521
Classroom 205	Fall	2020	1st Grade	Mathematics	91.00	12	80.00	-11.00	11.00	121
Classroom 213	Fall	2020	1st Grade	Mathematics	50.10	12	71.40	21.30	-21.30	453.69
Classroom 220	Fall	2020	11th Grade	Mathematics	0.00	61	78.10	78.10	-78.10	6099.61
Classroom 221	Fall	2020	Kindergarten	Mathematics	84.00	6	100.00	16.00	-16.00	256
Classroom 222	Fall	2020	10th Grade	Mathematics	50.50	74	76.00	25.50	-25.50	650.25
Classroom 225	Fall	2020	9th Grade	Mathematics	4.00	5	40.00	36.00	-36.00	1296
Classroom 226	Fall	2020	3rd Grade	Mathematics	63.00	13	81.00	18.00	-18.00	324
Classroom 228	Fall	2020	Kindergarten	Mathematics	55.00	10	82.00	27.00	-27.00	729
Classroom 232	Fall	2020	11th Grade	Mathematics	36.55	14	97.64	61.09	-61.09	3731.9881

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
102	2282	29.62	-3021.54	145897.7176
			L =Top Value (Σd/N)	-29.62
			M =Middle value	56390.82
			O =Bottom Value	10302.00
			P =Square root of M/O	2.34
			T = (L/P)	-12.66

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2}{N}}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
							$\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$	$\alpha = 0.05$	Critical T = 1.645	
									Significant	
								T/Square Root of N = Effect	-1.254	

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 58	Winter	2020	10th Grade	French	25.00	26	84.00	59.00	-59.00	3481
Classroom 72	Winter	2020	8th Grade	Spanish	34.00	22	86.20	52.20	-52.20	2724.84
Classroom 93	Winter	2020	9th Grade	Spanish	18.50	42	95.00	76.50	-76.50	5852.25
Classroom 103	Winter	2020	10th Grade	Spanish	47.00	26	100.00	53.00	-53.00	2809
Classroom 120	Winter	2020	9th Grade	French	43.00	24	90.00	47.00	-47.00	2209

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
5	140	57.54	-287.70	17076.09
			L =Top Value (Σd/N)	-57.54
			M =Middle value	521.83
			O =Bottom Value	20.00
			P =Square root of M/O	5.11
			T = (L/P)	-11.26
			∞ = 0.05	Critical T = 1.645
				Significant
			T/Square Root of N = Effect	-5.038

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 61	Winter	2020	11th Grade	Music	70.00	90	100.00	30.00	-30.00	900
Classroom 62	Winter	2020	6th Grade	Music	6.00	15	76.00	70.00	-70.00	4900
Classroom 63	Winter	2020	9th Grade	Music	65.00	27	90.00	25.00	-25.00	625
Classroom 64	Winter	2020	9th Grade	Music	75.00	27	45.00	-30.00	30.00	900
Classroom 69	Winter	2020	8th Grade	Music	28.00	36	94.00	66.00	-66.00	4356
Classroom 70	Winter	2020	8th Grade	Music	37.50	35	80.00	42.50	-42.50	1806.25
Classroom 74	Winter	2020	6th Grade	Music	20.00	42	81.00	61.00	-61.00	3721
Classroom 75	Winter	2020	6th Grade	Music	71.43	55	85.71	14.28	-14.28	203.9184
Classroom 111	Winter	2020	10th Grade	Music	70.00	66	93.00	23.00	-23.00	529
Classroom 227	Fall	2020	Kindergarten	Music	64.20	83	78.70	14.50	-14.50	210.25

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
10	475	31.63	-316.28	18151.4184
			L =Top Value (Σd/N)	-31.63
			M =Middle value	8148.11
			O =Bottom Value	90.00
			P =Square root of M/O	9.51
			T = (L/P)	-3.32
			α = 0.05	Critical T = 1.645
				Significant
			T/Square Root of N = Effect	-1.051

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 44	Winter	2020	3rd Grade	Physical Education	71.00	22	96.00	25.00	-25.00	625
Classroom 96	Winter	2020	9th Grade	Physical Education	86.00	45	89.00	3.00	-3.00	9
Classroom 113	Winter	2020	4th Grade	Physical Education	14.30	20	42.90	28.60	-28.60	817.96
Classroom 118	Winter	2020	3rd Grade	Physical Education	71.00	28	85.00	14.00	-14.00	196
Classroom 211	Fall	2020	9th Grade	Physical Education	74.00	20	90.30	16.30	-16.30	265.69

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
5	134	17.38	-86.90	1913.65
			L =Top Value ($\sum d/N$)	-17.38
			M =Middle value	403.33
			O =Bottom Value	20.00
			P =Square root of M/O	4.49
			T = (L/P)	-3.87
			$\alpha = 0.05$	Critical T = 1.645
				Significant
			T/Square Root of N = Effect	-1.731

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 1	Winter	2020	4th Grade	Integrated Science	33.00	18	93.00	60.00	-60.00	3600
Classroom 2	Winter	2020	1st Grade	Integrated Science	58.00	19	89.00	31.00	-31.00	961
Classroom 5	Winter	2020	2nd Grade	Integrated Science	51.00	21	77.00	26.00	-26.00	676
Classroom 10	Winter	2020	2nd Grade	Integrated Science	42.93	19	89.16	46.23	-46.23	2137.2129
Classroom 14	Winter	2020	2nd Grade	Integrated Science	60.00	20	81.00	21.00	-21.00	441
Classroom 29	Winter	2020	3rd Grade	Integrated Science	61.00	16	79.00	18.00	-18.00	324
Classroom 32	Winter	2020	1st Grade	Integrated Science	57.40	18	85.20	27.80	-27.80	772.84
Classroom 33	Winter	2020	1st Grade	Integrated Science	39.00	20	74.00	35.00	-35.00	1225
Classroom 34	Winter	2020	1st Grade	Integrated Science	54.00	16	79.00	25.00	-25.00	625
Classroom 35	Winter	2020	3rd Grade	Integrated Science	44.68	19	83.50	38.82	-38.82	1506.9924
Classroom 40	Winter	2020	4th Grade	Integrated Science	40.34	25	56.25	15.91	-15.91	253.1281
Classroom 41	Winter	2020	Kindergarten	Integrated Science	59.44	25	93.38	33.94	-33.94	1151.9236
Classroom 46	Winter	2020	5th Grade	Integrated Science	41.00	17	69.00	28.00	-28.00	784
Classroom 49	Winter	2020	Kindergarten	Integrated Science	62.00	17	70.00	8.00	-8.00	64
Classroom 76	Winter	2020	7th Grade	Earth Science	64.28	28	76.32	12.04	-12.04	144.9616
Classroom 83	Winter	2020	4th Grade	Integrated Science	44.00	26	74.00	30.00	-30.00	900
Classroom 99	Winter	2020	9th Grade	Biology	23.00	36	86.00	63.00	-63.00	3969
Classroom 106	Winter	2020	10th Grade	Chemistry	16.94	112	72.08	55.14	-55.14	3040.4196
Classroom 110	Winter	2020	2nd Grade	Integrated Science	100.00	2	100.00	0.00	0.00	0
Classroom 114	Winter	2020	6th Grade	Earth Science	51.00	23	93.00	42.00	-42.00	1764
Classroom 128	Fall	2020	4th Grade	Integrated Science	26.20	21	60.30	34.10	-34.10	1162.81
Classroom 161	Fall	2020	5th Grade	Integrated Science	44.00	19	82.00	38.00	-38.00	1444
Classroom 185	Fall	2020	Kindergarten	Integrated Science	65.00	20	82.00	17.00	-17.00	289
Classroom 188	Fall	2020	5th Grade	Integrated Science	55.36	21	84.38	29.02	-29.02	842.1604
Classroom 196	Fall	2020	2nd Grade	Integrated Science	11.00	9	90.00	79.00	-79.00	6241
Classroom 199	Fall	2020	1st Grade	Integrated Science	67.00	21	86.00	19.00	-19.00	361
Classroom 202	Fall	2020	Kindergarten	Integrated Science	12.00	17	88.00	76.00	-76.00	5776
Classroom 207	Fall	2020	3rd Grade	Integrated Science	25.00	21	44.64	19.64	-19.64	385.7296
Classroom 214	Fall	2020	5th Grade	Integrated Science	16.22	18	61.07	44.85	-44.85	2011.5225
Classroom 215	Fall	2020	1st Grade	Integrated Science	43.00	15	92.00	49.00	-49.00	2401
Classroom 233	Fall	2020	10th Grade	Chemistry	32.00	35	68.00	36.00	-36.00	1296

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
31	711	34.14	-1058.49	46550.7007
			L =Top Value ($\sum d/N$)	-34.14
			M =Middle value	10408.73
			O =Bottom Value	930.00

$$\frac{\sum d}{N}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
$t = \frac{N}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$							P = Square root of M/O	3.35		
							T = (L/P)	-10.21		
							α = 0.05	Critical T = 1.645		
								Significant		
							T/Square Root of N = Effect	-1.833		

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 3	Winter	2020	10th Grade	Social Studies	70.70	23	89.26	18.56	-18.56	344.4736
Classroom 8	Winter	2020	7th Grade	Social Studies	55.47	113	87.21	31.74	-31.74	1007.4276
Classroom 15	Winter	2020	3rd Grade	Social Studies	11.30	23	79.50	68.20	-68.20	4651.24
Classroom 16	Winter	2020	3rd Grade	Social Studies	68.00	26	83.00	15.00	-15.00	225
Classroom 21	Winter	2020	3rd Grade	Social Studies	45.85	23	76.40	30.55	-30.55	933.3025
Classroom 60	Winter	2020	4th Grade	Social Studies	27.50	26	83.00	55.50	-55.50	3080.25
Classroom 66	Winter	2020	10th Grade	Social Studies	39.75	70	71.50	31.75	-31.75	1008.0625
Classroom 67	Winter	2020	9th Grade	Social Studies	53.33	71	82.60	29.27	-29.27	856.7329
Classroom 68	Winter	2020	7th Grade	Social Studies	76.00	18	82.00	6.00	-6.00	36
Classroom 82	Winter	2020	4th Grade	Social Studies	72.50	25	97.50	25.00	-25.00	625
Classroom 104	Winter	2020	7th Grade	Social Studies	53.73	20	86.88	33.15	-33.15	1098.9225
Classroom 115	Winter	2020	8th Grade	Social Studies	45.60	60	76.00	30.40	-30.40	924.16
Classroom 119	Winter	2020	9th Grade	Social Studies	37.60	120	66.30	28.70	-28.70	823.69
Classroom 138	Fall	2020	6th Grade	Social Studies	11.00	49	78.00	67.00	-67.00	4489
Classroom 160	Fall	2020	5th Grade	Social Studies	58.00	19	91.00	33.00	-33.00	1089
Classroom 165	Fall	2020	10th Grade	Social Studies	40.00	21	83.50	43.50	-43.50	1892.25
Classroom 166	Fall	2020	12th Grade	Social Studies	58.00	46	93.00	35.00	-35.00	1225
Classroom 177	Fall	2020	10th Grade	Social Studies	43.50	101	94.70	51.20	-51.20	2621.44
Classroom 184	Fall	2020	2nd Grade	Social Studies	32.50	10	53.75	21.25	-21.25	451.5625
Classroom 186	Fall	2020	Kindergarten	Social Studies	52.29	14	91.14	38.85	-38.85	1509.3225
Classroom 191	Fall	2020	5th Grade	Social Studies	13.00	24	79.00	66.00	-66.00	4356
Classroom 203	Fall	2020	2nd Grade	Social Studies	58.00	13	56.00	-2.00	2.00	4
Classroom 208	Fall	2020	5th Grade	Social Studies	52.00	25	70.00	18.00	-18.00	324
Classroom 209	Fall	2020	3rd Grade	Social Studies	73.90	15	56.50	-17.40	17.40	302.76
Classroom 216	Fall	2020	2nd Grade	Social Studies	58.00	7	64.00	6.00	-6.00	36
Classroom 217	Fall	2020	3rd Grade	Social Studies	60.10	8	35.00	-25.10	25.10	630.01
Classroom 219	Fall	2020	2nd Grade	Social Studies	60.00	7	64.00	4.00	-4.00	16
Classroom 224	Fall	2020	4th Grade	Social Studies	54.40	20	72.50	18.10	-18.10	327.61
Classroom 230	Fall	2020	9th Grade	Social Studies	30.80	24	79.30	48.50	-48.50	2352.25
Classroom 234	Fall	2020	9th Grade	Social Studies	39.60	86	83.90	44.30	-44.30	1962.49

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
30	1103	28.47	-854.02	39202.9566
			L =Top Value ($\sum d/N$)	-28.47
			M =Middle value	14891.28
			O =Bottom Value	870.00
			P =Square root of M/O	4.14

$$\frac{\sum d}{N}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
							$\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$	T = (L/P)	-6.88	
								∞ = 0.05	Critical T = 1.645	
									Significant	
								T/Square Root of N = Effect	-1.256	